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Surveyor

ISSN: 1832-4460 (Print) (Online) Journal homepage: http://www.tandfonline.com/loi/tjss17

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To cite this article: S. Politzer (1911) Correspondence, Surveyor, 24:11, 218-218, DOI: 10.1080/18324460.1911.10439174

To link to this article: http://dx.doi.org/10.1080/18324460.1911.10439174

Published online: 01 Aug 2012.

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To the Editor of "The Surveyor."

Sir,—In annexed diagram, the lines b, a, d, and part of a circle that connects the three lines, represent a piece of land of which all lengths and bearings are given. The line b represents a drainage reserve, which has been found unsuitable, and is to be replaced by line x, with a definite bearing and at a distance, a, from the corner.

The question is, What is the length of x, and where does it cut the curve from the nearest tangent point?

Find, first, line c by the ordinary method of Boileau's tables, by which angle β becomes known.

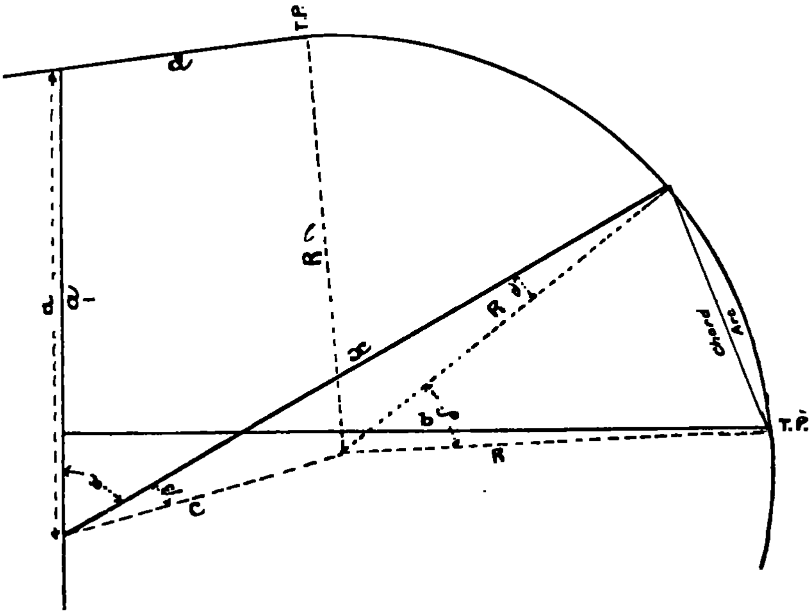
From $\Delta\, c\, R\, x$ we have $\sin \alpha = \dfrac{c \sin \beta}{R}$ and $x = \dfrac{R \sin(\beta + \alpha)}{\sin \beta}$.

From the first of these two equations we obtain the bearing of the middle radius, and, consequently, angle δ. Having this, the chord and arc from the nearest tangent point are quickly obtained.

Yours truly,

S. Pollitzer.

Sydney, 7th November, 1911.



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